REMARKS/ARGUMENTS

This Amendment and the following remarks are intended to fully respond to the Office Action dated October 18, 2004. In that Office Action, claims 1-19 were examined, and all claims were rejected. More specifically, claims 1-10 and 12-19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Admitted Prior Art (APA) in view of Talluri et al. (USPN 5,961,606); claim 11 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Admitted Prior Art in view of Talluri et al., and further in view of Provino et al. (USPN 6,535,929); and claim 12 has been objected to because of informalities. Reconsideration of these rejections, as they might apply to the original and amended claims in view of these remarks, is respectfully requested.

In this Response, claims 12 and 14 have been canceled; claim 13 has been amended; and new claim 20 has been added. Therefore, claims 1-11 and 13, 15-20 remain present for examination.

Claim Objections

Claim 12 has been objected to because claim 12 is an independent claim and should be rewritten to list all of the steps recited in claims 1 and 9. Claim 12 has been canceled and claim 20 has been added with the limitations of claim 12, 1 and 9. The Applicant thanks the examiner for this suggestion.

Claim Rejections – 35 U.S.C. § 103

Claims 1-10 and 12-19 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Admitted Prior Art (APA) in view of Talluri et al. (USPN 5,961,606).

Claim 1

Applicants respectfully traverse the section 103 rejections. The Examiner has failed to substantiate a prima facie case of obviousness because one or more of the requirements of a prima facie case is absent. Indeed, such a prima facie case can only be met when **all** of the

following requirements are met: (1) there must be some suggestion or motivation in the references themselves (or in the knowledge available to those skilled in the art) to combine the references; (2) there must be a reasonable expectation of success; and (3) the combined references must teach or suggest all the claim limitations. See MPEP §§ 706.02(j) and 2143. In this case, Admitted Prior Art (APA) in view of Talluri et al., does not describe all of the claim limitations of independent claims 1. Specifically, as to claim 1, the Examiner suggests that the Talluri reference teaches maintaining the memory segments as registered to allow the application program to perform another request. The Applicant submits that the Examiner has misread the reference. Talluri specifically states, "...the sending node can execute the Request Segment Recycle procedure 376, which initiates the process of enabling reuse of the segment." (Col. 16, lines 9-11) Applicant submits that using a recycle segment is very different than allowing the program to perform another request using the registered buffer as required in claim 1 of this disclosure. Invoking another procedure would slow the system further, while the present disclosure provides for speeding the processing. Applicant therefore submits that claim 1 of the present disclosure is allowable over the admitted prior art and the Talluri reference and respectfully requests it be allowed.

Because claims 2-10 depend from allowable claim 1, Applicant submits they are allowable and respectfully asks they be allowed.

Claim 13

Claim 13 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Admitted Prior Art in view of Talluri et al. As amended, the Admitted Prior Art and the Talluri reference do not teach or suggest the request to de-register a buffer is explicitly made by an application program. The Talluri reference at col. 13, lines 38 - 41 may suggest the release of the segment by the sending node. This implies that a segment is released by the machine, and the kernel control. This is very different than the application program deregistering the buffer. As stated in this disclosure page 12, lines 3-9, "Thus, the application program can then access the work request queue, which relates directly to the registers of the host channel adapter, without going through the kernel interface module." This may reduce processing time related to deregistering a buffer, and is very different than if accomplished by the sending node.

Applicant therefore submits that claim amended 13 of the present disclosure is allowable over the admitted prior art and the Talluri reference and respectfully requests it be allowed.

Because claims 15 - 16 depend from allowable claim 13, Applicant submits they are allowable and respectfully asks they be allowed.

Claim 17

In this case, Admitted Prior Art (APA) in view of Talluri et al., does not describe all of the claim limitations of independent claims 17. Specifically, as to claim 17, the Examiner suggests that the Talluri reference teaches a maintenance module for maintaining a record of registered buffers. Nowhere does the admitted prior art or the Talluri reference teach or suggest a maintenance module for maintaining a record of registered buffers. Talluri may disclose a recycling (370) and exporting memory segments 9350), however, Talluri does not teach or suggest a maintenance module for maintaining a record of registered buffers, as required by claim 17 of the present disclosure. Applicant therefore submits that claim 17 of the present disclosure is allowable over the admitted prior art and the Talluri reference and respectfully requests it be allowed.

Because claims 18 - 19 depend from allowable claim 17, Applicant submits they are allowable and respectfully asks they be allowed.

Claim 20

In this case, Admitted Prior Art (APA) and Talluri, do not teach or suggest all of the claim limitations of new independent claim 20. Specifically, as to claim 20, Applicant submits that for the reasons that claim 1, claim 20 is also allowable. The Examiner has not made a prima facie case because the admitted prior art and Talluri do not teach or suggest all of the limitations of new claim 20. Specifically, neither the Admitted Prior Art (APA) nor Talluri teach or suggest maintaining the buffer as registered to allow the application program to perform another request using the registered buffer, as required by new claim 20. Applicant therefore submits that claim 20 of the present disclosure is allowable over the admitted prior art and the Talluri reference and respectfully requests it be allowed.

Claim 11

Claim 11 stands rejected under 35 U.S.C. § 103(a) as being unpatentable over Admitted Prior Art in view of Talluri et al., and further in view of Provino et al. (USPN 6,535,929). The applicant submits that the Examiner has not made a prima facie case of obviousness. Specifically, Admitted Prior Art, Talluri, and Provino do not teach or suggest either determining whether the buffer is registered, or determining whether the buffer is registered. Nowhere do the cited reference teach or suggest allowing the application program access to the buffer to perform the request. As stated above, the Talluri reference may suggest allowing the machine to access a segment, but not direct access by the application program. Furthermore, the Examiner submits that the Provino reference teaches using a lookup function by the register and deregister methods. The Applicant submits that the Provino reference states at co. 6, lines 62-67, "The data lookup functions provide services to lookup a registered *application by its ACII name...*" (emphasis added) Applicant submits this is very different than determining whether a buffer is registered, as required by claim 11 of the present disclosure. For these reasons, Applicant submits that claim 11 is allowable, and respectfully requests it be allowed.

Conclusion

As now presented, it is believed that independent claims 1, 11, 13, 17, and 20 are allowable. All other claims depend from these claims, and therefore, are also allowable. In light of the above remarks and amendments, it is believed that the application is now in condition for allowance, and such action is respectfully requested. Applicants believe the above remarks and amendments place the application in a condition of allowance, and therefore, Applicants do not acquiesce to any Examiner remarks not addressed herein. Should any additional issues need to be resolved, the Examiner is requested to telephone the undersigned to attempt to resolve those issues.

Enclosed is a Petition for a one-month extension of time, together with the fee of $120. It is believed that no further fees are due with this Response. However, the Commissioner is hereby authorized to charge any deficiencies or credit any overpayment with respect to this patent application to deposit account number 13-2725.
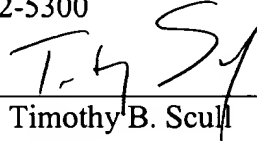
In light of the above amendments and remarks, it is believed that the application is now in condition for allowance, and such action is respectfully requested. Should any additional issues need to be resolved, the Examiner is requested to telephone the undersigned to attempt to resolve those issues.

Respectfully submitted,

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